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<151> 2003-10-03

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Leu Glu Glu Leu Pro Pro Ala Gln Pro Thr Ala Pro Leu Pro Ala Glu  
 770 775 780

Pro Ala Pro Ser Ser Asp Ala Asn Asp Asn Glu Leu Pro Ser Pro Glu  
 785 790 795 800

Pro Glu Glu Leu Ile Cys Pro Gln Thr Thr His Gln Thr Ala Glu Pro  
 805 810 815

Ala Glu Asp Asn Asn Asn Asn Val Ala Thr Val Pro Thr Thr Glu Gln  
 820 825 830

Ile Pro Ser Pro Val Ala Glu Ala Pro Ser Pro Gly Glu Glu Gln Val  
 835 840 845

Pro Pro Ala Pro Leu Pro Pro Ala Ser His Pro Pro Ala Thr Ser Thr  
 850 855 860

Asn Lys Arg Thr Asn Leu Lys Lys Pro Asn Ser Glu Arg Thr Gly His  
 865 870 875 880

Gly Leu Arg Val Arg Phe Asn Pro Leu Ala Leu Leu Leu Asp Ala Ser  
 885 890 895

Leu Glu Gly Glu Phe Asp Leu Val Gln Arg Ile Ile Tyr Glu Val Glu  
 900 905 910

Asp Pro Ser Lys Pro Asn Asp Glu Gly Ile Thr Pro Leu His Asn Ala  
 915 920 925

Val Cys Ala Gly His His His Ile Val Lys Phe Leu Leu Asp Phe Gly  
 930 935 940

Val Asn Val Asn Ala Ala Asp Ser Asp Gly Trp Thr Pro Leu His Cys  
 945 950 955 960

Ala Ala Ser Cys Asn Ser Val His Leu Cys Lys Gln Leu Val Glu Ser  
 965 970 975

Gly Ala Ala Ile Phe Ala Ser Thr Ile Ser Asp Ile Glu Thr Ala Ala  
 980 985 990

Asp Lys Cys Glu Glu Met Glu Glu Gly Tyr Ile Gln Cys Ser Gln Phe  
 995 1000 1005

Leu Tyr Gly Val Gln Glu Lys Leu Gly Val Met Asn Lys Gly Val  
 1010 1015 1020

Ala Tyr Ala Leu Trp Asp Tyr Glu Ala Gln Asn Ser Asp Glu Leu  
 1025 1030 1035

Ser Phe His Glu Gly Asp Ala Leu Thr Ile Leu Arg Arg Lys Asp  
 1040 1045 1050

Glu Ser Glu Thr Glu Trp Trp Trp Ala Arg Leu Gly Asp Arg Glu  
 1055 1060 1065

Gly Tyr Val Pro Lys Asn Leu Leu Gly Leu Tyr Pro Arg Ile Lys  
 1070 1075 1080

Pro Arg Gln Arg Thr Leu Ala  
 1085 1090

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 <212> PRT  
 <213> Homo sapiens

<400> 11

Met Met Pro Met Phe Leu Thr Val Tyr Leu Ser Asn Asn Glu Gln His  
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Phe Thr Glu Val Pro Val Thr Pro Glu Thr Ile Cys Arg Asp Val Val  
 20 25 30

Asp Leu Cys Lys Glu Pro Gly Glu Ser Asp Cys His Leu Ala Glu Val  
 35 40 45

Trp Cys Gly Ser Glu Arg Pro Val Ala Asp Asn Glu Arg Met Phe Asp  
 50 55 60

Val Leu Gln Arg Phe Gly Ser Gln Arg Asn Glu Val Arg Phe Phe Leu  
 65 70 75 80

Arg His Glu Arg Pro Pro Gly Arg Asp Ile Val Ser Gly Pro Arg Ser  
 85 90 95

Gln Asp Pro Ser Leu Lys Arg Asn Gly Val Lys Val Pro Gly Glu Tyr  
 100 105 110

Arg Arg Lys Glu Asn Gly Val Asn Ser Pro Arg Met Asp Leu Thr Leu  
 115 120 125

Ala Glu Leu Gln Glu Met Ala Ser Arg Gln Gln Gln Gln Ile Glu Ala  
 130 135 140

Gln Gln Gln Leu Leu Ala Thr Lys Glu Gln Arg Leu Lys Phe Leu Lys  
 145 150 155 160

Gln Gln Asp Gln Arg Gln Gln Gln Gln Val Ala Glu Gln Glu Lys Leu  
 165 170 175

Lys Arg Leu Lys Glu Ile Ala Glu Asn Gln Glu Ala Lys Leu Lys Lys  
 180 185 190

Val Arg Ala Leu Lys Gly His Val Glu Gln Lys Arg Leu Ser Asn Gly  
195 200 205

Lys Leu Val Glu Glu Ile Glu Gln Met Asn Asn Leu Phe Gln Gln Lys  
210 215 220

Gln Arg Glu Leu Val Leu Ala Val Ser Lys Val Glu Glu Leu Thr Arg  
225 230 235 240

Gln Leu Glu Met Leu Lys Asn Gly Arg Ile Asp Ser His His Asp Asn  
245 250 255

Gln Ser Ala Val Ala Glu Leu Asp Arg Leu Tyr Lys Glu Leu Gln Leu  
260 265 270

Arg Asn Lys Leu Asn Gln Glu Gln Asn Ala Lys Leu Gln Gln Gln Arg  
275 280 285

Glu Cys Leu Asn Lys Arg Asn Ser Glu Val Ala Val Met Asp Lys Arg  
290 295 300

Val Asn Glu Leu Arg Asp Arg Leu Trp Lys Lys Lys Ala Ala Leu Gln  
305 310 315 320

Gln Lys Glu Asn Leu Pro Val Ser Ser Asp Gly Asn Leu Pro Gln Gln  
325 330 335

Ala Ala Ser Ala Pro Ser Arg Val Ala Ala Val Gly Pro Tyr Ile Gln  
340 345 350

Ser Ser Thr Met Pro Arg Met Pro Ser Arg Pro Glu Leu Leu Val Lys  
355 360 365

Pro Ala Leu Pro Asp Gly Ser Leu Val Ile Gln Ala Ser Glu Gly Pro  
370 375 380

Met Lys Ile Gln Thr Leu Pro Asn Met Arg Ser Gly Ala Ala Ser Gln  
385 390 395 400

Thr Lys Gly Ser Lys Ile His Pro Val Gly Pro Asp Trp Ser Pro Ser  
405 410 415

Asn Ala Asp Leu Phe Pro Ser Gln Gly Ser Ala Ser Val Pro Gln Ser  
420 425 430

Thr Gly Asn Ala Leu Asp Gln Val Asp Asp Gly Glu Val Pro Leu Arg  
435 440 445

Glu Lys Glu Lys Lys Val Arg Pro Phe Ser Met Phe Asp Ala Val Asp  
450 455 460

Gln Ser Asn Ala Pro Pro Ser Phe Gly Thr Leu Arg Lys Asn Gln Ser  
465 470 475 480

Ser Glu Asp Ile Leu Arg Asp Ala Gln Val Ala Asn Lys Asn Val Ala  
485 490 495

Lys Val Pro Pro Pro Val Pro Thr Lys Pro Lys Gln Ile Asn Leu Pro  
500 505 510

Tyr Phe Gly Gln Thr Asn Gln Pro Pro Ser Asp Ile Lys Pro Asp Gly  
515 520 525

Ser Ser Gln Gln Leu Ser Thr Val Val Pro Ser Met Gly Thr Lys Pro  
530 535 540

Lys Pro Ala Gly Gln Gln Pro Arg Val Leu Leu Ser Pro Ser Ile Pro  
545 550 555 560

Ser Val Gly Gln Asp Gln Thr Leu Ser Pro Gly Ser Lys Gln Glu Ser  
565 570 575

Pro Pro Ala Ala Ala Val Arg Pro Phe Thr Pro Gln Pro Ser Lys Asp  
580 585 590

Thr Leu Leu Pro Pro Phe Arg Lys Pro Gln Thr Val Ala Ala Ser Ser  
595 600 605

Ile Tyr Ser Met Tyr Thr Gln Gln Gln Ala Pro Gly Lys Asn Phe Gln  
610 615 620

Gln Ala Val Gln Ser Ala Leu Thr Lys Thr His Thr Arg Gly Pro His  
625 630 635 640

Phe Ser Ser Val Tyr Gly Lys Pro Val Ile Ala Ala Ala Gln Asn Gln  
 645 650 655

Gln Gln His Pro Glu Asn Ile Tyr Ser Asn Ser Gln Gly Lys Pro Gly  
 660 665 670

Ser Pro Glu Pro Glu Thr Glu Pro Val Ser Ser Val Gln Glu Asn His  
 675 680 685

Glu Asn Glu Arg Ile Pro Arg Pro Leu Ser Pro Thr Lys Leu Leu Pro  
 690 695 700

Phe Leu Ser Asn Pro Tyr Arg Asn Gln Ser Asp Ala Asp Leu Glu Ala  
 705 710 715 720

Leu Arg Lys Lys Leu Ser Asn Ala Pro Arg Pro Leu Lys Lys Arg Ser  
 725 730 735

Ser Ile Thr Glu Pro Glu Gly Pro Asn Gly Pro Asn Ile Gln Lys Leu  
 740 745 750

Leu Tyr Gln Arg Thr Thr Ile Ala Ala Met Glu Thr Ile Ser Val Pro  
 755 760 765

Ser Tyr Pro Ser Lys Ser Ala Ser Val Thr Ala Ser Ser Glu Ser Pro  
 770 775 780

Val Glu Ile Gln Asn Pro Tyr Leu His Val Glu Pro Glu Lys Glu Val  
 785 790 795 800

Val Ser Leu Val Pro Glu Ser Leu Ser Pro Glu Asp Val Gly Asn Ala  
 805 810 815

Ser Thr Glu Asn Ser Asp Met Pro Ala Pro Ser Pro Gly Leu Asp Tyr  
 820 825 830

Glu Pro Glu Gly Val Pro Asp Asn Ser Pro Asn Leu Gln Asn Asn Pro  
 835 840 845

Glu Glu Pro Asn Pro Glu Ala Pro His Val Leu Asp Val Tyr Leu Glu  
 850 855 860

Glu Tyr Pro Pro Tyr Pro Pro Pro Tyr Pro Ser Gly Glu Pro Glu



865		870		875		880									
Gly	Pro	Gly	Glu	Asp	Ser	Val	Ser	Met	Arg	Pro	Pro	Glu	Ile	Thr	Gly
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Gln	Val	Ser	Leu	Pro	Pro	Gly	Lys	Arg	Thr	Asn	Leu	Arg	Lys	Thr	Gly
			900					905					910		
Ser	Glu	Arg	Ile	Ala	His	Gly	Met	Arg	Val	Lys	Phe	Asn	Pro	Leu	Ala
		915					920					925			
Leu	Leu	Leu	Asp	Ser	Ser	Leu	Glu	Gly	Glu	Phe	Asp	Leu	Val	Gln	Arg
	930					935					940				
Ile	Ile	Tyr	Glu	Val	Asp	Asp	Pro	Ser	Leu	Pro	Asn	Asp	Glu	Gly	Ile
945					950					955					960
Thr	Ala	Leu	His	Asn	Ala	Val	Cys	Ala	Gly	His	Thr	Glu	Ile	Val	Lys
				965					970					975	
Phe	Leu	Val	Gln	Phe	Gly	Val	Asn	Val	Asn	Ala	Ala	Asp	Ser	Asp	Gly
			980					985					990		
Trp	Thr	Pro	Leu	His	Cys	Ala	Ala	Ser	Cys	Asn	Asn	Val	Gln	Val	Cys
		995					1000						1005		
Lys	Phe	Leu	Val	Glu	Ser	Gly	Ala	Ala	Val	Phe	Ala	Met	Thr	Tyr	
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Ser	Asp	Met	Gln	Thr	Ala	Ala	Asp	Lys	Cys	Glu	Glu	Met	Glu	Glu	
	1025					1030					1035				
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Met	Gly	Ile	Met	Asn	Lys	Gly	Val	Ile	Tyr	Ala	Leu	Trp	Asp	Tyr	
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Glu	Pro	Gln	Asn	Asp	Asp	Glu	Leu	Pro	Met	Lys	Glu	Gly	Asp	Cys	
	1070					1075					1080				
Met	Thr	Ile	Ile	His	Arg	Glu	Asp	Glu	Asp	Glu	Ile	Glu	Trp	Trp	
	1085					1090					1095				

Trp Ala Arg Leu Asn Asp Lys Glu Gly Tyr Val Pro Arg Asn Leu  
1100 1105 1110

Leu Gly Leu Tyr Pro Arg Ile Lys Pro Arg Gln Arg Ser Leu Ala  
1115 1120 1125